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DOCUMENTS SECTION

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MARE ISLAND, VALLEJO, CALIFORNIA

1 July 1948

To: Medical Officer in Command

Subj: Monthly report of the Experimental Work of the Artificial Limb Department.

Ref: (a) Advisory Committee on Artificial Limbs ltr dtd 21 June 1948.

1. Monthly report required by reference (a) is hereby submitted. June

2. The job application for an engineer has been sent to the Bureau of Medicine & Surgery for approval.

3. Commander Carty and Ensign Ware attended a meeting of the Advisory Committee on Artificial Limbs, National Research Council in Denver, Colorado on June 28-30, 1948. Experimental projects for the coming fiscal year were discussed and planned.

The following projects are under production, experimentation and further study.

4. Functional Ankle Joint:

Ten ankles of the new design are being built to fit on amputees. One leg set up with the metal ankle block and one leg with the new ankle design have been sent to the University of California for accelerated testing.

5. Suction Socket:

Work continues on the suction sockets for all types of stumps.

6. Cineplastic Arms:

A new type of cineplastic below elbow arm is being constructed.

7. Pronator-Supinator for Above Elbow:

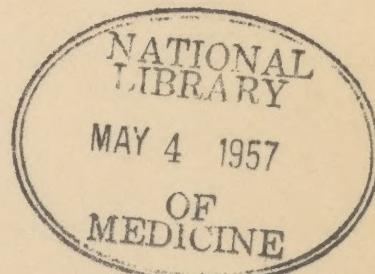
A new case is being fitted with this mechanism.

8. Robinson Hand and Cosmetic Glove:

Work continues on the cosmetic glove and mechanism.

9. Soft Bucket and Impression Methods for Below Knee Stumps:

The adjustable below knee prosthesis has been built and various types of impression materials are being investigated.



10. Tilting Table Prosthesis:

The hydraulic tilting table prosthesis is being redrafted in order to further simplify the mechanism.

11. Functional Joint for Elbow and Wrist:

A third size of joint is being designed in order to reduce the overall diameter. This will allow less bulk and will help to streamline the prosthesis.

12. Forged Aluminum Joints:

The dies for the below knee joint are being altered in order to increase the metal bulk at the stop section.

13. Suction Socket Valves:

The new suction socket valves are proving very successful and it is intended to conform to the latest specifications as set down by the standardization board.

14. Flexible Plastics:

Work is continuing on flexible plastics.

15. Functional Above Knee Joint:

A functional above knee joint is being worn by one amputee successfully.

16. Wrist Flexion Unit:

The Robin-Aid wrist flexion unit was redesigned. The blueprinting is completed and a unit is being constructed. At present this unit gives a flexion of 40°.

17. Above Elbow Arm with Elbow Lock:

A unit is being fitted to an amputee.

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Officer in Charge  
Artificial Limb Dept.